



Product: [39120](#)

Lead Wire, #20 Str TC, PPO Ins, AWM 11028

Request Sample

Product Description

Low Temp Plastic Lead Wire, 20AWG (8x30/2x29) Tinned Copper, PPO Insulation, AWM 11028 600V 105C VW-1

Technical Specifications

Product Overview

Suitable Applications:	Electrical panel builders, Electrical/electronic manufacturers, Appliance manufacturers, Furniture, Computer manufacturers, Automotive companies and their sub-suppliers
------------------------	--

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Conductors
20	10x30	TC - Tinned Copper	1
Conductor Count:			1

Material	Nominal Diameter	Nominal Wall Thickness
PPO - Polyphenylene Oxide	0.0605 in	0.012 in

Electrical Characteristics

Conductor DCR
Nominal Conductor DCR
9.85 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Single Conductor in Free Air @ 30C Ambient	Single conductor in free air @ 30°C: 14 A

Voltage
UL Voltage Rating
600 V RMS

Temperature Range

UL Temp Rating:	105°C
Operating Temperature Range:	-40°C To +105°C Dry

Mechanical Characteristics

Bulk Cable Weight:	4.2 lbs/1000ft
Min. Bend Radius/Minor Axis:	0.24 in

Standards

UL AWM Style Compliance:	AWM 11028
--------------------------	-----------

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	600 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
39120 010100	Black	Reel	100 ft	612825149774
39120 0101000	Black	Reel	1,000 ft	612825149781
39120 0105000	Black	Reel	5,000 ft	612825149798
39120 013100	Blue, Dark	Reel	100 ft	612825149804
39120 0131000	Blue, Dark	Reel	1,000 ft	612825149811
39120 0135000	Blue, Dark	Reel	5,000 ft	612825149828
39120 001100	Brown	Reel	100 ft	612825149538
39120 0011000	Brown	Reel	1,000 ft	612825149545
39120 0015000	Brown	Reel	5,000 ft	612825149552
39120 008100	Gray	Reel	100 ft	612825149712
39120 0085000	Gray	Reel	5,000 ft	612825149736
39120 005100	Green, Dark	Reel	100 ft	612825149651
39120 0051000	Green, Dark	Reel	1,000 ft	612825149668
39120 0055000	Green, Dark	Reel	5,000 ft	612825149675
39120 003100	Orange	Reel	100 ft	612825149590
39120 0031000	Orange	Reel	1,000 ft	612825149606
39120 0035000	Orange	Reel	5,000 ft	612825149613
39120 002100	Red	Reel	100 ft	612825149569
39120 0021000	Red	Reel	1,000 ft	612825149576
39120 0025000	Red	Reel	5,000 ft	612825149583
39120 007100	Violet	Reel	100 ft	612825149682
39120 0071000	Violet	Reel	1,000 ft	612825149699
39120 0075000	Violet	Reel	5,000 ft	612825149705
39120 009100	White	Reel	100 ft	612825149743
39120 0091000	White	Reel	1,000 ft	612825149750
39120 0095000	White	Reel	5,000 ft	612825149767
39120 004100	Yellow	Reel	100 ft	612825149620
39120 0041000	Yellow	Reel	1,000 ft	612825149637
39120 0045000	Yellow	Reel	5,000 ft	612825149644

Footnote:	C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
-----------	--

Product Notes

Notes:	Halogen-free.
--------	---------------

History

Update and Revision:	Revision Number: 0.389 Revision Date: 02-03-2025
----------------------	--

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.